

PE-BERKELEY, Inc.

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BAY AREA AIR QUALITY
MANAGEMENT DISTRICT

February 08th, 2016

Director of Compliance Enforcement
Attn: Title V Reports
Bay Area Air Quality Management District
939 Ellis Street
San Francisco, CA 94109

Subject: Title V Semi-Annual Monitoring Report for PE Berkeley, Inc., facility ID # B1326, for the period August 1st, 2015 through January 31st, 2016.

This Semi-Annual Report is being submitted in response to Section I, Standard Conditions Clause F, Monitoring Reports.

PE Berkeley, Inc. is submitting this Monitoring Report as required by the Bay Area Air Quality Management District. The permit requires only monitoring by record, periodically and by event, for source specific permit conditions. This facility maintains records of all product and quantities delivered and production by equipment run. We maintain and review product MSDS and applicable emission data for products delivered for consumption by source.

I certify to the best of my knowledge this to be a true and accurate statement.

Regards,



Michael Mazowita
PE Berkeley, Inc.

Attachment

PERMIT NON-COMPLIANCE SUMMARY

(Previously reported to District)

Facility ID: #B1326

Reporting period: August 1st, 2015 through January 31st, 2016.

DAS System Events

1. August 23, 2015 – Bad data was recorded due to a new software licensing issue. The sources were operating at base load and manual readings were taken. The license was “renewed” within 24 hours and resolved the issue.
2. October 15, 2015 – Bad data was recorded by the DAHS computer at approximately 0700 due to maintenance. The DAHS registered bad data through the end of the period (24:00). Manual data was taken through the event and the unit was operating at base load.

CEMS System Events

1. December 22, 2015 – The Continuous Emission Monitors were placed in maintenance for preventative maintenance for approximately 2 hours. The source was operated at base load and manual readings were taken and are on file.
2. January 14, 2016 – The Data collection (DAHS) computer experienced corrupt data for approximately 5 hours today. The sources were operating at base/constant load, and manual readings were taken during the loss of data. Plant personnel are troubleshooting the issue.
3. January 15, 2016 – The Data collection (DAHS) computer experienced corrupt data for approximately 4 hours today. The sources were operating at base/constant load, and manual readings were taken during the loss of data. Plant personnel are troubleshooting the issue.
4. January 16, 2016 – The Data collection (DAHS) computer experienced corrupt data for approximately 1 hour today. The sources were operating at base/constant load, and manual readings were taken during the loss of data. Plant personnel are troubleshooting the issue.
5. January 25, 2016 – The Data collection (DAHS) computer experienced corrupt data for approximately 2 hours today. The sources were operating at base/constant load, and manual readings were taken during the loss of data. Plant personnel are troubleshooting the issue.
6. January 26, 2016 – The Continuous Emission Monitors failed their daily calibration due to a fault in the PLC controller. The PLC (computer) was “re-booted” and the communication was restored. The CEM analyzers were calibrated and everything is functioned fine for the rest of the period.

Other Events

None.

Table VII-A
Applicable Limits and Compliance Monitoring Requirements
S-1, Emergency Diesel Engine Generator

Type of Limit	Emission Limit Citation	FE Y / N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance YES / NO	
Opacity	BAAQMD Regulation 6-1-303.1	N		>=Ringlemann 2.0 for no more than 3 minutes in any hour.		N		X	
Opacity	SIP Regulation 6-303.1	Y		>=Ringleman 2.0 for no more than 3 minutes in any hour		N		X	
FP	BAAQMD Regulation 6-1-310	N		0.15 gr/dscf		N		X	
FP	SIP Regulation 6-310	Y		0.15gr/dscf		N		X	
SO2	BAAQMD 9-1-301	Y		Property Line Ground level limits: <=0.5 ppm for 3 minutes and <= 0.25 ppm for 60 min. and <= 0.05ppm for 24 hours.	None	N	N/A	X	
	BAAQMD 9-1-304	Y		0.5%wt Sulfur in liquid fuel		P/E	Fuel certification of each delivery	X	
Hours of Operation	BAAQMD 9-8-330.1	N		Unlimited hours for emergencies.	BAAQMD 9-8-530.2	C P/M	Hour Meter, Records of Operating Hours	X	
	BAAQMD 9-8-330.2	N		100 hours per calendar year or permit limit whichever is lower for reliability-related activities	BAAQMD 9-8-530	C P/M	Hour Meter, Records of Operating Hours	X	
	BAAQMD 9-8-330.3	N	1/1/2012	50 hours per calendar year of permit limit whichever is lower for reliability-related activities	BAAQMD 9-8-530	C P/M	Hour Meter, Records of Operating Hours	X	
	BAAQMD Condition #22820 Part 2	Y		Unlimited Hours for Emergencies	BAAQMD Condition #22820 Part 3 and 4	C P/M	Hour Meter, Record Keeping	X	
	BAAQMD Condition #22820 Part 1	Y		<=20 hours per year for reliability-related activities	BAAQMD Condition #22820 Part 3 and 4	C P/M	Hour Meter, Record Keeping	X	

**Table VII-B
Applicable Limits and Compliance Monitoring Requirements
S-40, Turbine**

Type of Limit	Emission Limit Citation	FE Y / N	Future Effective Date	Emission Limit	Monitoring Frequency Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance YES / NO	
NOX	BAAQMD 9-9-303.2	N		20.2 ppmv @ 15% O ₂ , dry (adjusted per 9-9-401), except during start-up	BAAQMD 9-9-501	C	CEM	X	
NOX	SIP 9-9-303.2	Y		20.2 ppmv @ 15% O ₂ , dry (adjusted per 9-9-401), except during start-up	SIP 9-9-501	C	CEM	X	
	BAAQMD 9-9-303.2	N		42 ppmv @ 15% O ₂ , dry during natural gas curtailment or short testing periods	BAAQMD 9-9-501	C	CEM	X	
	SIP 9-9-303.2	Y		42 ppmv @ 15% O ₂ , dry during natural gas curtailment or short testing periods	SIP 9-9-501	C	CEM	X	
	BAAQMD Cond #366 Part 4	Y		20.2 ppmv – natural gas: @ 15% O ₂ , 3 hr avg, except during start-up	BAAQMD Cond #366 Part 12	C	CEM	X	
NOX	BAAQMD Cond #366 Part 5	Y		20.2 ppmv – natural gas: @ 15% O ₂ (combined S-40 & S-41), 3 hr avg, except during start-up	BAAQMD Cond #366 Part 12	C	CEM	X	
	BAAQMD Cond #366 Part 6	Y		42 ppmv – fuel oil: @ 15% O ₂ , 3 hr avg, except during start-up	BAAQMD Cond #366 Part 12	C	CEM	X	
NOX	BAAQMD Cond #366 Part 7	Y		39 ppmv – fuel oil: @ 15% O ₂ (combined S-40 & S-41), 3hr avg, except during start-up	BAAQMD Cond #366 Part 12	C	CEM	X	
	BAAQMD Cond #366 Part 10	Y		547 lb/day when burning natural gas and 1093 lb/day when burning fuel oil (combined S-40 & 41)	BAAQMD Cond #366 Part 12	C	CEM	X	
	NSPS Subpart GG, 60.332(a)(1)	Y		99 ppmv @ 15% O ₂ dry, 4-hr average	NSPS Subpart GG, 60.334(b)	C	CEM	X	
CO	BAAQMD Cond #366 Part 4a	Y		200 ppm @ 15% O ₂ 3-hour average except during start-up.	BAAQMD Cond #366 Part 12a	C	CEM	X	
CO	BAAQMD Cond #366 Part 5a	Y		200 ppm @ 15% O ₂ (combined S-40 & S-41) 3-hour average except during start-up	BAAQMD Cond #366 Part 12a	C	CEM	X	
CO	BAAQMD Cond #366 Part 10	Y		2195 lb/day (natural gas or fuel oil)(combined S-40 & 41)	BAAQMD cond #366 Parts 10, 12a, and 18	C	CEM, Annual source test	X	
SO ₂	BAAQMD Cond #366 Part 2	Y		Maximum of 0.12% by wt Sulfur in fuel oil	BAAQMD Cond #366 Parts 2	P/E	At each delivery, fuel sampling using District's laboratory procedure method 10	X	

¹ Ground level Concentration

Table VII-B
Applicable Limits and Compliance Monitoring Requirements
S-40, Turbine
Continued...

Type of Limit	Emission Limit Citation	FE Y / N	Future Effective Date	Emission Limit	Monitoring Frequency Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance YES / NO	
SO2	BAAQMD Cond #366 Part 3	Y		Maximum of 0.25% by wt Sulfur in fuel oil during periods of natural gas curtailment	BAAQMD Cond #366 Parts 2	P/E	At each delivery, fuel sampling using District's laboratory procedure method 10	X	
	BAAQMD Cond #366 Part 11	Y		987 lb/day (natural gas) 40 tons/year (combined S-40 & S-41)	BAAQMD Cond #366 Parts 11	P/E	fuel sampling using District's laboratory procedure method 10	X	
SO2	BAAQMD 9-1-301	Y		GLC ¹ of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours		N		X	
SO2	BAAQMD 9-1-302	Y		300 ppm (dry)		N		X	
	BAAQMD 9-1-304	Y		0.5% wt Sulfur in liquid fuel		P/E	Fuel certification	X	
SO2	NSPS Subpart GG, 60.333(a)	Y		0.015% (vol) @ 15% O2 (dry), or 0.8% sulfur in gaseous fuel by weight	NSPS Subpart GG, 60.334 (h)(3)	P/M or EN	Monthly gaseous fuel analysis of current, valid purchase contract, tariff sheet or transportation contract	X	
SO2	NSPS Subpart GG, 60.333(b)	Y		0.8% sulfur in fuel oil by weight	NSPS Subpart GG, 60.334(h)(1), 60.334(i)(1)	P/E	At each fuel oil delivery, fuel sampling using District's laboratory procedure method 10	X	
Opacity	BAAQMD 6-1-301	N		>=Ringlemann No. 1 for no more than 3 minutes in an hour	BAAQMD Cond #366 Part 19	P/E, during distillate oil combustion	Visible emissions monitoring	X	
Opacity	SIP 6-301	Y		>=Ringlemann No. 1 for no more than 3 minutes in an hour	BAAQMD Cond #366 Part 19	P/E, during distillate oil combustion	Visible emissions monitoring	X	
FP	BAAQMD 6-1-310	N		0.15 grain/dscf @ 6% O2		N		X	
FP	SIP 6-301	Y		0.15 grain/dscf @6% O2		N		X	

¹ Ground level Concentration

Table VII-C
Applicable Limits and Compliance Monitoring Requirements
S-41, Duct Burner

Type of Limit	Emission Limit Citation	FE Y / N	Future Effective Date	Emission Limit	Monitoring Frequency Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance YES / NO	
NOX	BAAQMD 9-9-303.2	N		20.2 ppmv @ 15% O ₂ , dry (adjusted per 9-9-401), except during start-up	BAAQMD 9-9-501	C	CEM	X	
NOX	SIP 9-9-303.2	Y		20.2 ppmv @ 15% O ₂ , dry (adjusted per 9-9-401), except during start-up	BAAQMD 9-9-501	C	CEM	X	
	BAAQMD 9-9-303.2	N		42 ppmv @ 15% O ₂ , dry during natural gas curtailment or short testing periods	BAAQMD 9-9-501	C	CEM	X	
	SIP 9-9-303.2	Y		42 ppmv @ 15% O ₂ , dry during natural gas curtailment or short testing periods	BAAQMD 9-9-501	C	CEM	X	
NOX	BAAQMD Cond #366 Part 5	Y		20.2 ppmv – natural gas: @15% O ₂ (combined S-40 & S-41), 3 hr avg, except during start-up	BAAQMD Cond #366 Part 12	C	CEM	X	
	BAAQMD Cond #366 Part 7	Y		39 ppmv – fuel oil: @15% O ₂ (combined S-40 & S-41), 3hr avg, except during start-up	BAAQMD Cond #366 Part 12	C	CEM	X	
	BAAQMD Cond #366 Part 10	Y		547 lb/day when burning natural gas and 1093 lb/day when burning fuel oil (combined S-40 & S-41)	BAAQMD Cond #366 Parts 9 and 12	C	CEM	X	
	NSPS Subpart GG, 60.332(a)(1)	Y		99 ppmv @ 15% O ₂ dry, 4 – hr average	NSPS Subpart GG, 60.334(b)	C	CEM	X	
CO	BAAQMD Cond #366 Part 5a	Y		200 ppm @ 15% O ₂ (combined S-40 & S-41) 3-hour average except during start-up	BAAQMD Cond #366 Part 12a	C	CEM	X	
	BAAQMD Cond #366 Part 10	Y		2195 lb/day (natural gas) 2195 lb/day (fuel oil) (combined S-40 & 41)	BAAQMD cond #366 Parts 10, 12a, and 18	C	CEM, Annual source test	X	
SO ₂	BAAQMD Cond #366 Part 11	Y		987 lb/day (natural gas) 40 tons/year (combined S-40 & 41)	BAAQMD Cond #366 Parts 11	P/E	At each fuel delivery, fuel sampling using District's laboratory procedure method 10	X	
SO ₂	BAAQMD 9-1-301	Y		GLC ¹ of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours		N		X	
SO ₂	BAAQMD 9-1-302	Y		300 ppm (dry)		N		X	
	BAAQMD 9-1-304	Y		0.5% wt Sulfur in liquid fuel		P/E	Fuel certification	NA ²	

¹ Ground level Concentration

² Not Applicable. Source #41 configured for gaseous fuel only.

Table VII-C
Applicable Limits and Compliance Monitoring Requirements
S-41, Duct Burner
Continued...

Type of Limit	Emission Limit Citation	FE Y / N	Future Effective Date	Emission Limit	Monitoring Frequency Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance YES / NO	
SO2	NSPS Subpart GG, 60.333 (a)	Y		0.015% (vol) @ 15% O2 (dry), or 0.8% sulfur in gaseous fuel by weight	NSPS Subpart GG, 60.334(h)(3)	P/M or EN	Monthly gaseous fuel analysis of current, valid purchase contract, tariff sheet or transportation contract	X	
SO2	NSPS Subpart GG, 60.333 (b)	Y		0.8% sulfur in fuel oil by weight	NSPS Subpart GG, 60.334 (h)(1), 60.334(i)(1)	P/E	At each fuel delivery, fuel sampling using District's laboratory procedure method 10	NA ²	
Opacity	BAAQMD 6-1-301	N		>=Ringlemann No. 1 for no more than 3 minutes in any hour	BAAQMD Cond #366 Part 19	P/E, during distillate oil combustion	Visible emissions monitoring	NA ²	
Opacity	SIP 6-301	Y		>=Ringlemann No. 1 for no more than 3 minutes in any hour	BAAQMD Cond #366 Part 19	P/E, during distillate oil combustion	Visible emissions monitoring	NA ²	
FP	BAAQMD 6-310	N		0.15 grain/dscf @ 6% O2			N	X	
FP	SIP 6-310	Y		0.15 grain/dscf @ 6% O2			N	X	

¹ Ground level Concentration

² Not Applicable. Source #41 configured for gaseous fuel only.